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To: Behnam Ghaffari

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Liteye Systems, Inc. has entered into an MOU for the use of Pinon Canyon Maneuver Site to conduct Operator and Field Service Representative (FSR) training and system testing on their Counter small Unmanned Ariel System (C-sUAS) Anti UAV Defense System (AUDS)

- BACKGROUND: AFLCMC/HBU is supporting multiple C-sUAS Urgent Operational Needs (UONs). AUDS is one of the capabilities procured in support of these efforts. Interim Contractor Support (ICS) will be accomplished with FSRs. Due to the strategic location of Pinon Canyon, the cost to conduct system testing and train the USAF Operators and FSRs may be reduced.

- PURPOSE: AFLCMC/HBUC supports Liteye Systems, Inc.'s request to utilize Pinon Canyon for the purpose of system testing and training Operators and FSRs on the AUDS system.

Government POCs:

- AFLCMC/HBUC Attn: James L Hill, Program Manager, GS-13, 3 Eglin St, Bldg 1612 Hanscom, AFB 01731-2100.

- Fort Carson/Pinon Canyon Attn: LTC James R Burkes, 1676 Evans St Bldg 1220 Fort Carson, CO 80913-5198

Liteye and Stop Buzzer contacts:

- Tom Scott, CTO – 303-324-0689

- Roy E. Crosthwaite, System Engineer – 303-437-6125

Interference Mitigation Strategy:

Prior to deployment to Pinon Canyon Liteye Engineering will:

- Work with the Spectrum POC for Fort Carson to identify nearby Federal systems operating in the band.

- Perform queries of the FCC ULS database to identify non-federal systems operating in the band.

- Contact owners of identified systems to develop operational plans, locations, and work-arounds to mitigate interference.

- Perform predicted RF coverage analysis to determine suitable locations for operations that will minimize interference. Possible locations will include but not be limited to areas with surface and terrain features such as depressions, hills, and buildings that can be utilized to shadow emissions from AUDS into identified systems. Other mitigation strategies may include changing the orientation and configuration of AUDS emitters.

Pinon Canyon Planned Operations:

Upon direction from Pinon Canyon Range Control, Liteye will position the Radar, Camera and Operating System in the predetermined location that mitigates possible interference and can support training activities for personnel. Liteye will be providing personnel to operate the system and will also provide UAS pilots.

Training will be conducted as directed by Pinon Canyon Range Control. The primary window for training is late May to mid-June but may be delayed or postponed corresponding to Government directives regarding COVID-19.

The training use of this radar and corresponding camera/operating system is to provide DoD personnel proficient in the operation and maintenance of the AUDS system. Goals include detection and surveillance of inadvertent and/or advertent aerial and ground threats posed to critical assets and military personnel and facilities involved in warfighter activity. Additionally, the following objectives will be pursued:

- Detect, surveil and collect data on ground-based intrusions; collect detect/surveil performance data on air intrusions if applicable.
- Evaluate system configuration requirements best suited to meet local challenges
- Determine gaps in current surveillance capabilities
- Analyze and report on operations and site security requirements and identify improvements to procedures and improved material solutions for security of DoD personnel, equipment, and facilities.